

What is claimed is:

- 1. An electrically heated hand grip comprising:**
a hand grip adapted to be mounted on an end of a shaft;
a heating member affixed within said hand grip;
an end cap assembly including a receptacle for receiving a power source and an electrical connecting means, said end cap assembly being removably attached to said hand grip; and
an electrical switch being electrically coupled to said power source, said electrical connecting means and said heating member for controlling a supply of current to said heating member.
- 2. The electrically heated hand grip of claim 1 wherein said hand grip further comprises an inner sleeve having an interior surface and an exterior surface, said inner sleeve adapted to be mounted on the end of said shaft.**
- 3. The electrically heated hand grip of claim 2 wherein said heating member includes a first electrical terminal and a second electrical terminal, said heating member being surroundingly attached to the exterior surface of said inner sleeve.**
- 4. The electrically heated hand grip of claim 3 wherein said hand grip further comprises an outer sleeve including a gripping section and an end section, said outer sleeve being inserted over said heating member and said inner sleeve so as to receive said first electrical terminal and said second electrical terminal such that said terminals pass longitudinally through said outer sleeve and extend outward from said end section.**
- 5. The electrically heated hand grip of claim 4 wherein said outer**

sleeve is adhesively bonded to said heating member and said inner sleeve such that the outer sleeve completely encapsulates the heating member and the exterior surface of said inner sleeve forming an integral grip.

6. The electrically heated hand grip of claim 5 wherein said heating member comprises any one of electrical heating resistance wire, etched-foil heater, a flexible printed circuit heater and a flexible carbon fiber heater.

7. The electrically heated hand grip of claim 6 wherein said end section includes a plurality of threads externally formed thereon.

8. The electrically heated hand grip of claim 7 wherein said end cap assembly further includes a top member, a sidewall member coupled to said top member so as to form said receptacle, and a plurality of threads internally formed within said sidewall member for threadably receiving said end section.

9. The electrically heated hand grip of claim 8 wherein said electrical connecting means includes a first polarity contact, a second polarity contact, and at least one connecting member.

10. The electrically heated hand grip of claim 9 wherein said electrical switch comprises any one of a variable resistance on-off switch, an on-off switch, an on-off timer or pulsing circuit, a timer switch, a thermostat switch, a potentiometer, a toggle switch, a dip switch, a pushbutton and a slideable switch, said electrical switch being disposed about any one of said top member, said sidewall member, and said outer sleeve.

11. The electrically heated hand grip of claim 10 wherein said end cap assembly further includes a light-emitting diode electrically coupled to said electrical switch and said power source for indicating when said heating member is activated.

12. The electrically heated hand grip of claim 11 wherein said end cap assembly further includes a charging means electrically coupled to said power source for charging said power source.

13. The electrically heated hand grip of claim 12, wherein said shaft comprises a shaft of any one of a golf club, tennis racket, badminton racket, hockey stick, curling broom, ski pole, paddle, fishing rod, broom, shovel, rake, hoe, screw driver, hammer, gardening tool, umbrella, cane, or walking stick.

14. The electrically heated hand grip of claim 4 wherein said gripping section includes a plurality of dimples or ridges.

15. The electrically heated hand grip of claim 1 wherein said hand grip further comprises an inner sleeve including an interior surface, an exterior surface, and a plurality of hollow ribs helically disposed about said exterior surface, said inner sleeve adapted to be inserted on to the end of said shaft.

16. The electrically heated hand grip of claim 15 wherein said heating member includes a first electrical terminal and a second electrical terminal, said heating member being inserted within each of said plurality of hollow ribs and helically wrapped around the exterior surface of said inner sleeve.

17. The electrically heated hand grip of claim 16 wherein said hand grip further comprises an outer sleeve including a gripping section, an end section, and a plurality of spaced channels helically formed within an interior surface of said outer sleeve such that the spaced channels are positioned in corresponding relation to said plurality of hollow ribs.

18. The electrically heated hand grip of claim 17 wherein said outer

sleeve is inserted over said heating member and said inner sleeve so as to receive said first electrical terminal and said second electrical terminal such that said terminals pass longitudinally through said outer sleeve and extend outward from said end section, said outer sleeve being adhesively bonded to said inner sleeve such that said plurality of spaced channels are in bonding relation with said plurality of hollow ribs.

19. The electrically heated hand grip of claim 18 wherein said heating member comprises electrical heating resistance wire.

20. The electrically heated hand grip of claim 19, wherein said shaft comprises a shaft of any one of a golf club, tennis racket, badminton racket, hockey stick, curling broom, ski pole, paddle, fishing rod, broom, shovel, rake, hoe, screw driver, hammer, gardening tool, umbrella, cane, and walking stick.

21. The electrically heated hand grip of claim 1 wherein said hand grip further comprises an inner sleeve including an interior surface, an exterior surface, and a plurality of hollow stubs disposed about said exterior surface, said inner sleeve adapted to be inserted on the end of said shaft.

22. The electrically heated hand grip of claim 21 wherein said heating member includes a first electrical terminal and a second electrical terminal, said heating member passing through each of said plurality of hollow stubs so as to be longitudinally disposed about the exterior surface of said inner sleeve.

23. The electrically heated hand grip of claim 22 wherein said hand grip further comprises an outer sleeve including a gripping section, an end section, and a plurality of channels longitudinally formed within an interior surface of said outer sleeve such that the plurality of channels are positioned in corresponding relation to said plurality of hollow stubs.

24. The electrically heated hand grip of claim 23 wherein said outer sleeve is inserted over said heating member and said inner sleeve so as to receive said first electrical terminal and said second electrical terminal such that said terminals pass longitudinally through said outer sleeve and extend outward from said end section, said outer sleeve being adhesively bonded to said inner sleeve such that said plurality of channels are in bonding relation with said plurality of hollow stubs.

25. The electrically heated hand grip of claim 24 wherein said heating member comprises electrical heating resistance wire.

26. The electrically heated hand grip of claim 25, wherein said shaft comprises a shaft of any one of a golf club, tennis racket, badminton racket, hockey stick, curling broom, ski pole, paddle, fishing rod, broom, shovel, rake, hoe, screw driver, hammer, gardening tools, umbrella, cane and a walking stick.

27. An electrically heated hand grip adapted to be mounted on to a shaft of a golf club, said electrically heated hand grip comprising:

- a hollow inner sleeve having an interior surface and an exterior surface, said hollow sleeve being inserted on to a grip-receiving portion of said shaft;

- a heating member including a first electrical terminal and a second electrical terminal, said heating member being molded within or adhesively attached to the exterior surface of said hollow inner sleeve;

- an outer sleeve including a gripping section and a threaded end section, said outer sleeve being inserted over said heating member and said inner sleeve so as to receive said first electrical terminal and said second electrical terminal such that said terminals pass longitudinally through said outer sleeve so as to extend outward from said threaded end section,

wherein said outer sleeve is adhesively secured to said hollow inner sleeve;

an end cap assembly including a receptacle having an electrical connecting means and a power source disposed therein, said end cap assembly threadably receiving said end section; and

an electrical switch disposed about either said end cap assembly or said outer sleeve, said electrical switch being electrically coupled to said heating member and said power source for controlling the supply of current to said heating member.

28. The electrically heated hand grip of claim 27, wherein said heating member comprises any one of electrical heating resistance wire, etched-foil heater, a flexible printed circuit heater and a flexible carbon fiber heater.

29. The electrically heated hand grip of claim 28, wherein said electrical switch comprises any one of a variable resistance on-off switch, an on-off switch, an on-off timer or pulsing circuit, a timer switch, a thermostat switch, a potentiometer, a toggle switch, a dip switch, a pushbutton and a slideable switch.

30. An electrically heated hand grip comprising:
a resilient strip including an inner surface and an outer surface;
a heating member molded within or adhesively attached to the inner surface of said resilient strip so as to form a heating strip, said heating strip being spirally wrapped about a shaft; and
an end cap assembly removably coupled to said shaft for securing a portion of said heating strip.

31. The electrically heated hand grip of claim 30 wherein said heating member comprises any one of electrical heating resistance wire, etched-foil heater, a flexible printed circuit heater and a flexible carbon fiber heater.

32. The electrically heated hand grip of claim 31 wherein said end cap assembly includes a top member and a sidewall member coupled to said top member so as to form a receptacle, said receptacle having a power source and electrical connecting means disposed therein.

33. The electrically heated hand grip of claim 32 further including an electrical switch disposed about either said end cap assembly or the outer surface of said resilient strip, said electrical switch being electrically coupled to said power source for controllably supplying current to said heating member.

34. The electrically heated hand grip of claim 33 wherein said electrical switch includes any one of a variable resistance on-off switch, an on-off switch, an on-off timer or pulsing circuit, a timer, a thermostat switch, a potentiometer, a toggle switch, a dipswitch, a pushbutton and a slideable switch.

35. The electrically heated hand grip of claim 34 wherein said end cap assembly further includes a light-emitting diode electrically coupled to said electrical switch and said power source for indicating when said heating member is being activated.

36. The electrically heated hand grip of claim 35 wherein said end cap assembly further includes a charging means electrically coupled to said power source for charging said power source.

37. The electrically heated hand grip of claim 36, wherein said shaft comprises a shaft of any one of a golf club, tennis racket, badminton racket, hockey stick, curling broom, ski pole, paddle, fishing rod, broom, shovel,

rake, hoe, screw driver, hammer, gardening tools, umbrella, cane, and walking stick.

38. The electrically heated hand grip of claim 30, wherein said electrically heated hand grip further comprises a sleeve having an interior surface and an exterior surface, said sleeve including heat reflective properties.

39. The electrically heated hand grip of claim 38 wherein said heating strip is spirally wrapped around the exterior surface of said sleeve such that a lower portion of said heating strip is secured to said sleeve and said shaft with an adhesive material or mechanical fastener.

40. The electrically heated hand grip of claim 39 wherein said heating member comprises any one of electrical heating resistance wire, etched-foil heater, a flexible printed circuit heater and a flexible carbon fiber heater.

41. The electrically heated hand grip of claim 40 wherein said end cap assembly includes a top member and a sidewall member coupled to said top member so as to form a receptacle, said receptacle having a power source and electrical connecting means disposed therein.

42. The electrically heated hand grip of claim 41 further including an electrical switch disposed about either said end cap assembly or the outer surface of said resilient strip, said electrical switch being electrically coupled to said power source for controllably supplying current to said heating member.

43. The electrically heated hand grip of claim 42 wherein said electrical switch includes any one of a variable resistance on-off switch, an on-off switch, an on-off timer or pulsing circuit, a timer, a thermostat switch,

a potentiometer, a toggle switch, a dipswitch, a pushbutton and a slideable switch.

44. The electrically heated hand grip of claim 43 wherein said end cap assembly further includes a light-emitting diode electrically coupled to said electrical switch and said power source for indicating when said heating member is being activated.

45. The electrically heated hand grip of claim 44 wherein said end cap assembly further includes a charging means electrically coupled to said power source for charging said power source.

46. The electrically heated hand grip of claim 45, wherein said shaft comprises a shaft of any one of a golf club, tennis racket, badminton racket, hockey stick, curling broom, ski pole, paddle, fishing rod, broom, shovel, rake, hoe, screw driver, hammer, gardening tools, umbrella, cane, and a walking stick.